



Rising Sixth Grade Summer Work

summer
2023

Parents,

It is summertime! We always encourage you to enjoy the outdoors, swim, sleep in late, and be together as a family. We hope you have a wonderful few months ahead of you and that you can create many memories during this time. We also hope you spend some time keeping your child's memory fresh with all the important things they learned this past school year. We've tried to help you in that task by gathering summer worksheets and writing assignments for your child to complete.

The following pages provide activities and problems that are an appropriate follow-up to the school year. The summer work for math is taken with permission from "Math Logic and Word Problems" by Creative Teaching Press, Inc. Research has proven that your child will benefit most if he/she practices his/her math skills regularly throughout the summer, rather than focusing attention on one particular week or month. We recommend that students work on a couple of problems each week and share with their parents the steps in working towards a solution for each problem. **All math problems must be completed with work showing for an effort grade.**

The following page has required assignments that your child must have completed before the first day of sixth grade. **Students will bring summer work to their classroom on the first day of school.** By taking the time to do these over the summer, you are preparing your child for a great beginning to their sixth-grade year!

We pray that you have a fantastic summer. We pray for safe travels and relaxing nights. We pray for your child as they learn and grow. We look forward to seeing you this fall. Until then, enjoy summer!

Sincerely,
The Sixth Grade Team

Sixth grade is required to read *Eric Liddell: Something Greater than Gold* by Goeff and Janet Benge and a minimum of two other books.



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Writing:

Summer reading for sixth graders involves one required title and two additional books. Please note that while only three books are required, teachers hope and expect that your child will choose to read more than the minimum.

For *Eric Liddell: Something Greater Than Gold*, students will make a **bookmark** following these directions:

- 2.5 in x 8 in piece of paper
- use plenty of color and creativity; use your imagination!
- front:
 - title
 - author
 - “catch phrase” to represent a key idea of the story
 - visual image to represent the story
- back:
 - brief summary of the book (4-6 sentences)
 - a list of main characters with a brief description of each
 - rating of the book (draw 1-5 stars to show how much you liked it)
- add your name

For the first book of choice, students are to write a **book report** following these guidelines:

- MLA format, 5 paragraphs
- paragraph 1: basic information
 - title
 - author
 - publisher
 - date published
 - brief summary
- paragraph 2: setting
 - time
 - place
- paragraph 3: main characters (minimum of 3 characters)
 - name
 - age
 - appearance
 - personality
 - how they change throughout the book
- paragraph 4: plot
 - describe the beginning
 - state the problem or conflict
 - conclude with the resolution of the story
- paragraph 5: conclusion



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- Did you like the book?
- What was your favorite part?
- Would you recommend this book? To who?
- add your name

For the second book of choice, students will write an **alternate ending in cursive** following these guidelines:

- lined notebook paper
- cursive writing
- 200 words
- add your name

For additional books, use the **reading log** below to record your extra summer reading:

Title & Author	# of Pages	Rating
_____		★ ★ ★ ★ ★
_____		★ ★ ★ ★ ★
_____		★ ★ ★ ★ ★
_____		★ ★ ★ ★ ★
_____		★ ★ ★ ★ ★

As an optional assignment for additional books of choice, students can make a **crossword puzzle** showing your understanding of the novel with at least six across and six down. Create a blank version on one side and a filled-in version with the answers on the back.

In addition to the bookmark, book report, alternate ending, and optional reading assignments above, **write our Head of School a letter!** Include your hopes and dreams for sixth grade. What do you envision the year to look like? What kind of leader do you want to be? What are your goals?

Mail your letter to the following address:

St. Paul Christian Academy
ATTN: Mr. Norton, Head of School
5033 Hillsboro Pike
Nashville, TN 37215



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Math:

You worked hard in math all year. Make sure you keep what you've learned by practicing your skills throughout the summer. Below are math logic and word problems for you to complete this summer.

Required Math Summer Work- Rising 6th Grade

Students need to show work. Attach any work to packet.

Standard Form/Expanded Form

Write in expanded form:

Nine hundred ninety-nine million, four hundred twenty-five thousand, nine hundred six and thirty-eight thousandths

Write in standard form:

$4,000,000 + 33,000 + 9 + 0.1 + 0.006$ _____

$6,000 + 20 + 7$ _____

$80,000 + 4,000 + 700 + 30 + 1$ _____

Reducing fractions- reduce as low as they can go!

$$\frac{12}{24}$$

$$\frac{8}{10}$$

$$\frac{20}{56}$$

$$\frac{36}{48}$$

$$\frac{33}{39}$$

$$\frac{80}{100}$$

$$\frac{64}{120}$$

$$\frac{15}{45}$$

$$\frac{14}{21}$$

$$\frac{50}{76}$$

Improper to mixed- reduce- divide bottom into the top

$$\frac{41}{12}$$

$$\frac{89}{10}$$

$$\frac{16}{7}$$

$$\frac{21}{6}$$

$$\frac{52}{20}$$



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Mixed to improper- backwards "C"

$$9\frac{2}{7}$$

$$8\frac{9}{11}$$

$$3\frac{5}{6}$$

$$11\frac{4}{9}$$

$$7\frac{3}{5}$$

Adding and Subtracting Fractions - reduce (Remember your denominator needs to be the same)

$$\frac{5}{8} + \frac{2}{8}$$

$$\frac{10}{12} - \frac{8}{12}$$

$$\frac{12}{14} + \frac{3}{14}$$

$$\frac{9}{15} - \frac{3}{15}$$

$$\frac{15}{20} - \frac{2}{10}$$

$$\frac{4}{5} + \frac{6}{7}$$

$$\frac{3}{8} + \frac{2}{3}$$

$$\frac{14}{18} - \frac{3}{9}$$

$$5\frac{1}{8} + 2\frac{4}{8}$$

$$9\frac{2}{6} + 10\frac{4}{6}$$

$$11\frac{9}{12} + 15\frac{4}{12}$$

$$8\frac{2}{9} + 4\frac{4}{9}$$

$$7\frac{1}{3} + \frac{5}{6}$$

$$6\frac{5}{9} + 3\frac{1}{8}$$

$$\frac{7}{10} + \frac{9}{12}$$

$$\frac{6}{7} + \frac{9}{11}$$

$$9 - 3\frac{4}{7}$$

$$10 - 5\frac{6}{9}$$

$$11\frac{3}{3} - 2\frac{2}{3}$$

$$\frac{15}{16} - \frac{7}{16}$$



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$$12\frac{3}{4} - 10\frac{1}{2}$$

$$7\frac{5}{8} - 5\frac{6}{8}$$

$$8 - 5\frac{3}{4}$$

$$3\frac{7}{10} - 1\frac{8}{10}$$

Multiplying and Dividing Fractions - reduce

$$\frac{4}{7} \times \frac{5}{8}$$

$$\frac{9}{10} \times \frac{3}{6}$$

$$\frac{2}{5} \times \frac{8}{12}$$

$$\frac{12}{14} \times \frac{3}{4}$$

$$\frac{1}{3} \times \frac{9}{4}$$

$$\frac{5}{6} \times \frac{10}{11}$$

$$\frac{7}{5} \times \frac{6}{10}$$

$$\frac{3}{3} \times \frac{8}{11}$$

$$3\frac{1}{5} \times 2\frac{3}{4}$$

$$8 \times 4\frac{2}{3}$$

$$1\frac{1}{9} \times 1\frac{12}{8}$$

$$\frac{9}{10} \times \frac{9}{10}$$

(*Keep, change, flip when doing division)

$$\frac{4}{5} \div \frac{7}{6}$$

$$\frac{1}{3} \div \frac{9}{12}$$

$$\frac{6}{7} \div \frac{8}{9}$$

$$\frac{2}{3} \div \frac{3}{4}$$

$$\frac{10}{6} \div \frac{5}{8}$$

$$\frac{7}{8} \div \frac{4}{10}$$

$$\frac{11}{12} \div \frac{1}{3}$$

$$2\frac{1}{2} \div 5$$



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$$4\frac{3}{4} \div 3\frac{1}{3}$$

$$7 \div \frac{7}{9}$$

$$6\frac{2}{3} \div 5\frac{1}{2}$$

$$10 \div \frac{3}{5}$$

Order of Operations

PEMDAS

$$18 \div 6 \times (4-3) + 6$$

$$4 \times 5 + (14+8) - 36 \div 9$$

$$(28 \div 4) + 3 + (10 - 8) \times 5$$

$$36 \div 9 + 48 - 10 \div 2$$

$$8 \times 3 + 70 \div 7 - 7$$

$$14 - 8 + 3 + 8 \times (24 \div 8)$$

Multiplication

$$13 \times 9$$

$$27 \times 8$$

$$452 \times 6$$

$$2903 \times 7$$



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456×89

321×60

321×778

152×982

$9,234 \times 820$

$2,711 \times 375$

Division (write with remainders if needed). Check with multiplication.

$9765 \div 5$

$12,322 \div 4$

$834 \div 12$

$1328 \div 25$



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$24,532 \div 35$

$45,999 \div 90$

$7,234 \div 28$

$97,246 \div 50$

$6,333 \div 3$

$7893 \div 8$

Divisibility: Check each number to see if it is divisible by 2, 3, 4, 5, 6, 7, 8, 9, and/or 10.

85 _____

122 _____

1720 _____

1315 _____

518 _____

3000 _____



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Range, Mode, Median and Mean

Range- maximum - minimum

Mode- most common

Median - middle

Mean- average

23, 28, 25, 29, 25

range:
mode:
median:
mean:

Ellen received the following scores on math tests:

80, 85, 76, 70, 87, 80, 90, 80 and 90

range:
mode:
median:
mean

7,7,12,19,8,14,10

range:
mode:
median:
mean:



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Adding and Subtracting Decimals (Line up the decimal)

$128.07 - 83.25$

$306.85 + 216.96$

$18.95 - 6.07$

$215.29 + 38.77$

$109.9 - 34.25$

$41.23 + 3.876$

Multiplying Decimals- Multiply normal, then count decimal places.

10.23×4.56

44.6×0.09

2.242×82

0.163×7.7

54.12×6

9.35×0.008

*****ALL STUDENTS NEED TO REVIEW MULTIPLICATION and DIVISION facts! These should all be memorized!**



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Subtraction

$$\begin{array}{r} 9513 \\ - 9189 \\ \hline \end{array}$$

$$\begin{array}{r} 4004 \\ - 1582 \\ \hline \end{array}$$

$$\begin{array}{r} 8720 \\ - 7487 \\ \hline \end{array}$$

$$\begin{array}{r} 5260 \\ - 1139 \\ \hline \end{array}$$

$$\begin{array}{r} 9769 \\ - 9048 \\ \hline \end{array}$$

$$\begin{array}{r} 4433 \\ - 4283 \\ \hline \end{array}$$

$$\begin{array}{r} 2361 \\ - 1431 \\ \hline \end{array}$$

$$\begin{array}{r} 6082 \\ - 5328 \\ \hline \end{array}$$

$$\begin{array}{r} 8616 \\ - 7832 \\ \hline \end{array}$$

$$\begin{array}{r} 7005 \\ - 1465 \\ \hline \end{array}$$

$$\begin{array}{r} 8503 \\ - 4239 \\ \hline \end{array}$$

$$\begin{array}{r} 7000 \\ - 4853 \\ \hline \end{array}$$

$$\begin{array}{r} 8040 \\ - 5757 \\ \hline \end{array}$$

$$\begin{array}{r} 6080 \\ - 3331 \\ \hline \end{array}$$

$$\begin{array}{r} 7000 \\ - 4737 \\ \hline \end{array}$$

$$\begin{array}{r} 6720 \\ - 3613 \\ \hline \end{array}$$

$$\begin{array}{r} 6704 \\ - 5520 \\ \hline \end{array}$$

$$\begin{array}{r} 3500 \\ - 2076 \\ \hline \end{array}$$

$$\begin{array}{r} 9058 \\ - 4459 \\ \hline \end{array}$$

$$\begin{array}{r} 9004 \\ - 1559 \\ \hline \end{array}$$

$$\begin{array}{r} 6361 \\ - 6329 \\ \hline \end{array}$$

$$\begin{array}{r} 6024 \\ - 4375 \\ \hline \end{array}$$

$$\begin{array}{r} 5320 \\ - 2570 \\ \hline \end{array}$$

$$\begin{array}{r} 2047 \\ - 1097 \\ \hline \end{array}$$

$$\begin{array}{r} 9005 \\ - 3112 \\ \hline \end{array}$$



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Adding Fractions

- 1) $\frac{3}{4} + \frac{1}{2} =$
- 2) $\frac{1}{4} + \frac{9}{10} =$
- 3) $\frac{2}{5} + \frac{7}{10} =$
- 4) $\frac{2}{5} + \frac{1}{2} =$
- 5) $\frac{2}{3} + \frac{2}{10} =$
- 6) $\frac{1}{3} + \frac{4}{5} =$
- 7) $\frac{2}{5} + \frac{1}{3} =$
- 8) $\frac{4}{10} + \frac{1}{2} =$
- 9) $\frac{1}{4} + \frac{2}{3} =$
- 10) $\frac{3}{4} + \frac{3}{10} =$
- 11) $\frac{2}{3} + \frac{4}{5} =$
- 12) $\frac{4}{5} + \frac{1}{10} =$
- 13) $\frac{1}{2} + \frac{1}{3} =$
- 14) $\frac{4}{10} + \frac{1}{3} =$
- 15) $\frac{2}{4} + \frac{1}{2} =$



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Adding Mixed Numbers

- 1) $1\frac{2}{10} + 7\frac{1}{4} =$
- 2) $4\frac{2}{10} + 9\frac{2}{3} =$
- 3) $1\frac{8}{10} + 4\frac{3}{4} =$
- 4) $6\frac{1}{2} + 6\frac{1}{3} =$
- 5) $5\frac{1}{10} + 5\frac{3}{4} =$
- 6) $3\frac{7}{10} + 5\frac{2}{3} =$
- 7) $6\frac{7}{10} + 9\frac{1}{4} =$
- 8) $2\frac{2}{4} + 9\frac{1}{2} =$
- 9) $3\frac{1}{2} + 5\frac{2}{3} =$
- 10) $4\frac{2}{3} + 5\frac{1}{10} =$
- 11) $4\frac{1}{2} + 4\frac{2}{5} =$
- 12) $4\frac{7}{10} + 5\frac{3}{4} =$
- 13) $5\frac{3}{5} + 5\frac{1}{3} =$
- 14) $4\frac{1}{3} + 7\frac{4}{5} =$
- 15) $6\frac{1}{10} + 4\frac{1}{2} =$



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Subtracting Fractions

$$1) \quad \frac{3}{5} - \frac{1}{4} =$$

$$2) \quad \frac{2}{5} - \frac{1}{10} =$$

$$3) \quad \frac{2}{3} - \frac{4}{10} =$$

$$4) \quad \frac{2}{3} - \frac{4}{10} =$$

$$5) \quad \frac{1}{2} - \frac{1}{3} =$$

$$6) \quad \frac{2}{4} - \frac{1}{2} =$$

$$7) \quad \frac{4}{5} - \frac{1}{2} =$$

$$8) \quad \frac{2}{4} - \frac{2}{10} =$$

$$9) \quad \frac{8}{10} - \frac{3}{4} =$$

$$10) \quad \frac{4}{5} - \frac{1}{2} =$$



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Name _____ Date _____

Ice Cream

Soren, Silas, Ruthann, Victoria, and Julia went out for ice cream. Each ordered an ice-cream cone in their favorite flavor. Use the following clues to match each child with his or her favorite flavor.

- Only one child orders ice cream that starts with the same first letter as their name.
- Julia's favorite ice cream is the same color as her favorite color.
- The name of the child who orders strawberry ice cream does not start with "S".
- Silas orders ice cream with more than one flavor.
- Soren does not like peppermint.
- Ruthann does not like fruit flavored ice cream.



	Strawberry	Vanilla	Chocolate	Mint Chocolate Chip	Peppermint
Soren					
Silas					
Ruthann					
Victoria					
Julia					

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Name _____ Date _____

Working

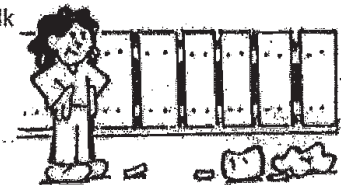
- A. Madigan and her classmates have volunteered to help out at the weeklong park festival. There are 12 members of the class, and together they volunteered for a total of 48 hours over 5 days. In addition, all 12 classmates will be helping at the festival for 5 hours each on Saturday. How many hours did the class volunteer during the 6 days?



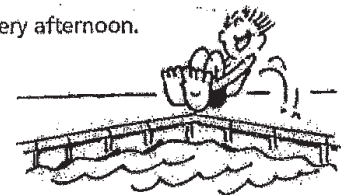
- B. Devin was helping his grandfather gather corn in the mornings. Each morning for 10 days he helped pick corn from 7:30 a.m. until 10:00 a.m. His grandfather paid him \$100 for his work. How much did he make per hour?



- C. Paloma volunteered to clean up litter along the sidewalk in front of her home for a total of 24 hours. If it took 30 minutes to walk that section of sidewalk, and she walked it daily and picked up all the litter she saw, how many days would she need to work to complete her 24 hours of volunteer time?



- D. Carson wanted to ride his bike to swimming lessons every afternoon. His lesson started at 2:00 p.m. and ended at 3:15 p.m. The pool was a 15-minute bike ride from his home. If he needed to allow 10 minutes to change into his swimsuit before the lesson and 10 minutes to change out of his swimsuit after his lesson, what time does he need to leave home? What time will he return home?





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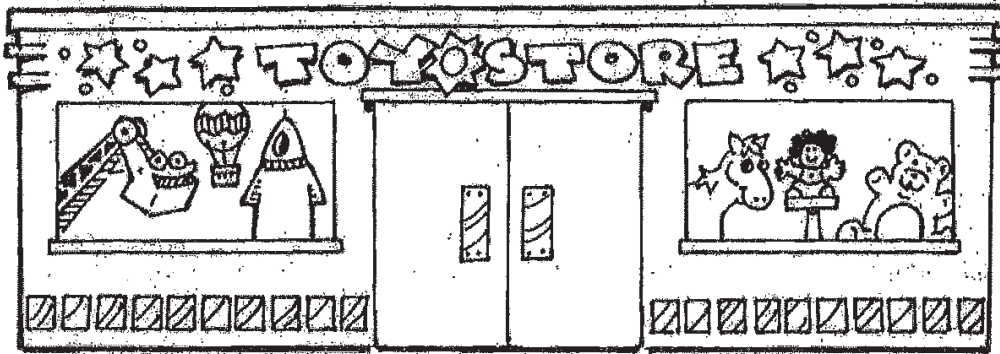
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Name _____ Date _____

The Toy Store

Area of a rectangle = $l \times w$

Area of a triangle = $\frac{1}{2}bh$



- A. Sheri's mother owned a toy store and was moving into a larger building. The old store was 38 feet by 24 feet. The new store is 45 feet wide and has 2,385 square feet. How much larger is the new store than the old store?
- B. Sheri's mother wants to use wallpaper over the office in the store. The office is a 12-foot square. The walls are 8 feet tall. How many square feet of wallpaper would be needed to cover two of the walls?
- C. Sheri's mother wants to paint a large sailboat on one wall of the toy store. The sail of the boat will have a base of 8 feet and an area of 28 feet. What is the height of the sail?
- D. On the front wall of the store, Sheri was going to paint large geometric shapes. She painted a circle, a square, and is now painting a triangle in bright blue. The height of the triangle is 5 feet. She wants to make the base the same as the square. The square has an area of 16 square feet. How long is the base of the triangle?



Name _____ Date _____

Basketball Game

The Monarchs made 112 points in the final basketball game of the season.

- Jethro made $\frac{1}{4}$ of those points.
- Peter made 58 points less than Jethro.
- Jack made half as many points as Peter.
- Max made $\frac{1}{2}$ of the points.
- Forrest made 4 more points than Jack.

How many points did each boy score?

Jethro _____

Peter _____

Jack _____

Max _____

Forrest _____





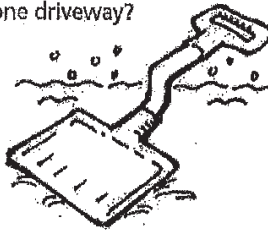
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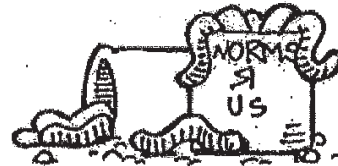
Name _____ Date _____

Jobs

- A. Sean spent his snow day from school going around the neighborhood shoveling driveways. He shoveled five driveways taking 90 minutes, 60 minutes, 45 minutes, 110 minutes, and 75 minutes to do the jobs. What was the average time to shovel one driveway?



- B. Milo and Sarah were raising earthworms to sell to fishermen at the lake. They sold the following amounts each weekend day during the month: 14 dozen; 18 dozen; 22 dozen; 8 dozen; 15 dozen; 15 dozen; 28 dozen; and 6 dozen. What was the average number of earthworms Milo and Sarah sold each day?



- C. Delia has been working for several families babysitting over the past week. She earned an average of \$20 per night for four nights. On Monday she earned \$15, on Saturday she earned \$25, and on Sunday she earned \$20. How much did she earn on Friday night?



- D. Xavier is collecting aluminum cans for recycling. Each Saturday for nine weeks he took cans to the recycling center. These are the weights of the cans he recycled: 38 pounds; 42 pounds; 58 pounds; 71 pounds; 36 pounds; 23 pounds; 41 pounds; and 65 pounds. He averaged 50 pounds per week. He noticed he was missing one week's weight of cans. Help him find the missing weight.



Number and Operations 31



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Yard Work

Bryan has his first job. He is helping his neighbor with yard work. Every Saturday morning he goes over and helps pull up dandelions, pull weeds from the flower beds, pick up any sticks that fall off trees, and rake up any leaves or other debris on the lawn. His neighbor is paying him \$10.00 every week.

Bryan saved most of his money for the first two months, and on April 12 he opened a checking account with \$76.50.

Date	Description of transaction	Debit	Deposit	Balance
4/12	Opened checking account			76.50

- On April 14, he wrote a check for \$50.00 to pay for swim lessons.
- On April 16, he bought a new swimsuit for \$22.64.
- On April 18, he deposited \$10.00.
- On April 22, he bought new swim goggles and flippers for \$14.95.
- On April 24, he got a letter from the bank stating he had overdrawn his account and was being charged \$20.00.

If Bryan deposits the \$10.00 he earned that Saturday, what would his balance be?
